

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE BY SECURED PARTY
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MORGAN STANLEY & CO. LLC	12/13/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FENWAL, INC.
<b>Street Address:</b>	Three Corporate Drive
<b>City:</b>	Lake Zurich
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60047
<b>Name:</b>	FENWAL HOLDINGS, INC.
<b>Street Address:</b>	Three Corporate Drive
<b>City:</b>	Lake Zurich
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60047
<b>PROPERTY NUMBERS Total: 244</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	5724988
Patent Number:	6523698
Patent Number:	6189704
Patent Number:	6132413
Patent Number:	6358420
Application Number:	60287027
Application Number:	10475767
Application Number:	60402286
Application Number:	10618353
Patent Number:	5030209

CH \$9760.00 5724988

Patent Number:	5181524
Patent Number:	5219333
Patent Number:	5086922
Patent Number:	5092462
Patent Number:	5273161
Patent Number:	5409112
Patent Number:	5714125
Patent Number:	5910289
Patent Number:	6074612
Patent Number:	7153386
Patent Number:	6727101
Patent Number:	6503453
Application Number:	60030212
Patent Number:	5957125
Application Number:	60207709
Patent Number:	6709428
Patent Number:	7024749
Patent Number:	5167657
Patent Number:	5100401
Patent Number:	5026347
Patent Number:	5460625
Patent Number:	5512187
Patent Number:	5314421
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Patent Number:	5330464
Patent Number:	5372143
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Patent Number:	6126618
Patent Number:	6387086
Patent Number:	7044941
Application Number:	10957016
Application Number:	11251283
Application Number:	11250717

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Patent Number:	6742760
Application Number:	60353930
Application Number:	10501571
Application Number:	60364314
Application Number:	10279251
Application Number:	10974651
Application Number:	60740312
Application Number:	11564085
Application Number:	11376790
Application Number:	11555797
Application Number:	11555868
Patent Number:	4997577
Patent Number:	5507904
Patent Number:	5772880
Patent Number:	5591337
Patent Number:	5647985
Patent Number:	5795483
Patent Number:	5728306
Patent Number:	5885457
Patent Number:	6267745
Patent Number:	6997893
Patent Number:	6669905
Application Number:	60252870
Application Number:	11449543
Patent Number:	6601710
Patent Number:	6688476
Application Number:	10764630
Patent Number:	6367634
Application Number:	10761850
Patent Number:	6422397
Patent Number:	6745902
Application Number:	10275805
Application Number:	10742521
Application Number:	11618286

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Patent Number:	4964976
Patent Number:	5614106
Patent Number:	5870805
Application Number:	60287122
Application Number:	09864888
Application Number:	09864891
Patent Number:	4934995
Patent Number:	5759147
Patent Number:	5217426
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Patent Number:	6565806
Patent Number:	6855120
Patent Number:	7001321
Application Number:	10827951
Patent Number:	6730054
Patent Number:	6080322
Patent Number:	6251284

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Patent Number:	6325775
Patent Number:	6949079
Application Number:	11052528
Patent Number:	6984218
Patent Number:	6481980
Application Number:	10828440
Patent Number:	6716004
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Patent Number:	6875191
Application Number:	11032271
Patent Number:	6322488
Patent Number:	6800054
Patent Number:	7166231
Patent Number:	6524231
Application Number:	11256550
Patent Number:	6315707
Patent Number:	6759007
Application Number:	10828359
Patent Number:	6723062
Application Number:	60216640
Patent Number:	6994781
Application Number:	11198804
Application Number:	11198805
Patent Number:	7032910
Patent Number:	7011761
Application Number:	11255356
Patent Number:	6878105

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Patent Number:	7004727
Patent Number:	6849039
Patent Number:	6860846
Application Number:	60533820
Application Number:	10827603
Application Number:	60532310
Application Number:	10826420
Patent Number:	7087177
Application Number:	11427402
Patent Number:	4952812
Patent Number:	5906915
Patent Number:	5868695
Patent Number:	5300019
Patent Number:	6695805
Patent Number:	5935092
Patent Number:	5290221
Application Number:	10752352
Patent Number:	5360734
Patent Number:	5597722
Patent Number:	6207107
Patent Number:	5527704
Patent Number:	6800432
Patent Number:	6319662
Patent Number:	5762867
Patent Number:	5908742
Patent Number:	6190855
Patent Number:	6855489
Application Number:	11056347
Patent Number:	5922278
Patent Number:	6190609
Patent Number:	6326197
Patent Number:	6063624
Patent Number:	6613566
Patent Number:	6566046

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Patent Number:	6866992
Patent Number:	6899834
Patent Number:	6908553
Patent Number:	6099734
Application Number:	10059666
Patent Number:	6364864
Patent Number:	6565802
Patent Number:	6986867
Application Number:	11191134
Patent Number:	7068361
Application Number:	11443599
Application Number:	11443927
Patent Number:	7105093
Patent Number:	7205877
Application Number:	11353397
Application Number:	10269444
Application Number:	10008361
Patent Number:	6936413
Application Number:	11173214
Application Number:	60364289
Application Number:	10290035
Application Number:	10661994
Application Number:	11267391

#### CORRESPONDENCE DATA

Fax Number:

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

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Address Line 4: Chicago, ILLINOIS 60690-2828

ATTORNEY DOCKET NUMBER:	12343442
NAME OF SUBMITTER:	Patrick Tierney



**Total Attachments: 26**

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## **SECOND-LIEN INTELLECTUAL PROPERTY SECURITY RELEASE AGREEMENT**

This SECOND-LIEN INTELLECTUAL PROPERTY SECURITY RELEASE AGREEMENT (the “***Second-Lien IP Security Release***”), dated as of December 13, 2012, by MORGAN STANLEY & CO. LLC (formerly known as Morgan Stanley & Co., Incorporated), as collateral agent for the Secured Parties (in such capacity, together with its successors in such capacity, the “***Collateral Agent***”), in favor of FENWAL, INC. and FENWAL HOLDINGS, INC (collectively, the “***Grantors***”). All capitalized terms used herein and not otherwise defined shall have the meaning assigned to such terms in the Credit Agreement (as defined below).

WHEREAS, the Grantors entered into that certain Second-Lien Security Agreement, dated as of February 28, 2007 (the “***Second-Lien Security Agreement***”) among Fenwal Holdings, Inc., a Delaware corporation (“***Holdings***”), Fenwal, Inc., a Delaware corporation (the “***Borrower***”), each of the subsidiaries of the Borrower listed on the signature pages hereof (each such subsidiary, individually, a “***Subsidiary Grantor***” and, collectively, the “***Subsidiary Grantors***”), and the Collateral Agent;

WHEREAS, under the terms of the Second-Lien Security Agreement, the Grantors granted a Security Interest to the Collateral Agent in such Grantor’s United States Registered Intellectual Property for recording with the United States Patent and Trademark Office (the “***USPTO***”) and the United States Copyright Office (the “***USCO***”) and other United States Governmental Authorities necessary or advisable to perfect the Security Interest hereunder in such United States Registered Intellectual Property;

WHEREAS, the Second-Lien IP Security Agreement was recorded with the Patent Division of the United States Patent and Trademark Office on May 15, 2007, at Reel 019297 and Frame 00168; and with the Trademark Division of the United States Patent and Trademark Office on May 15, 2007, at Reel 003542 and Frame 0644; and

WHEREAS, the Collateral Agent now desires to release its security interest in and to the Grantors’ right, title and interest in and to the Collateral identified in this Second-Lien IP Security Release.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent agrees as follows:

SECTION 1. Release of Security Interest. The Collateral Agent hereby releases to the Grantors its security interest in all of the Grantors’ right, title, and interest in and to the following (the “***Collateral***”):

(i) all patents and patent applications, including, without limitation, the patents and patent applications set forth in Schedule A hereto (collectively, the “***Patents***”);

(ii) all trademarks and service mark rights, including, without limitation, the trademark and service mark registrations and applications set forth in Schedule B hereto, together with the goodwill symbolized thereby (collectively, the “*Trademarks*”);

(iii) all copyrights, whether registered or unregistered, including, without limitation, the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto (collectively, the “*Copyrights*”);

(iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

(v) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages.; and

(vi) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral of or arising from any of the foregoing.

**SECTION 2. Recordation.** The Collateral Agent authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks and any other applicable government officer record this Release.

**SECTION 3. Further Assurances.** In each case upon the reasonable request of a Grantor and at such Grantor’s expense, the Collateral Agent shall execute and deliver to such Grantor all further releases and other documents or take other actions necessary to effect the releases of the Collateral Agent’s security interests in the Collateral in accordance with this Second-Lien IP Security Release.

**SECTION 4. Governing Law.** This Second-Lien IP Security Release shall be governed by, and construed in accordance with, the laws of the State of New York.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the Collateral Agent has caused this Second-Lien IP Security Release to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

MORGAN STANLEY & CO. LLC, as  
Collateral Agent

By: 

Name: STEPHEN B. KINT  
Title: Executive Director

SCHEDULE A TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES TRADEMARKS

See attached "United States Trademarks" Exhibit.

SCHEDULE A TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES TRADEMARKS

Trademark	Country	Status	App. Number	Reg. Number
ADSOL	US	Registered	73/327182	1218845
ALYX	US	Registered	76/337082	2772325
AMICUS	US	Registered	74/575241	2142964
AUTOPHERESIS- C	US	Registered	73/479531	1371147
BLOOD-PACK	US	Registered	8212	641094
CONTINUOUS FLOW	US	Registered	73/422848	1278944
CS-3000	US	Registered	249948	1157151
FENWAL	US	Registered	298662	1197286
FENWAL	US	Registered	76/295208	2690111
FLEX-EXCEL*	US	Pending	78/711371	
GLYCEROLYTE	US	Registered	72/378586	932806
HEMATRON	US	Registered	205982	801961
HEMATYPE	US	Registered	75/075246	2080280
INTERSOL	US	Registered	76/077081	2753566
KINDERQ-5	US	Pending	77/048549	
MOBI	US	Registered	76/476114	3,060,634
PEDIQ 5	US	Pending	77/048701	
PEDI-STORE 5	US	Pending	77/048709	
PLASMA-GARD	US	Registered	249325	1160839
PLASMA-GARD	US	Registered	118859	1082372
PLASMACELL-C	US	Registered	74/221436	1707969
PLASMALINK	US	Registered	75/334712	2304595
POWERFUL MEDICINE	US	Registered	76/123451	2,577,614
SPIKESMART	US	Registered	75/377534	2469964

\* The trademark application marked with an asterisk is a United States intent-to-use trademark applications filed in the USPTO pursuant to 15 U.S.C. § 1051 Section 1(b), and the security interest should not be recorded against such application unless and until evidence of use of such mark in interstate commerce is accepted by the USPTO pursuant to 15 U.S.C. § 1051 Section 1(c) or Section 1(d).

SCHEDULE B TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES PATENTS

See attached "Owned U.S. Patents" Exhibit.

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
INLINE FILTER	US	8/090552	5724988
INLINE FILTER	US	9/597653	6523698
INLINE FILTER	US	8/955409	6189704
BREAKABLE CANNULA ASSEMBLIES AND METHOD FOR MANIPULATING THEM	US	9/036337	6132413
BLOOD COLLECTION METHOD EMPLOYING AN AIR VENTING BLOOD SAMPLE TUBE	US	9/088231	6358420
SEALING APPARATUS AND METHOD	US	60/287027	
SEALING APPARATUS AND METHOD	US	10/475767	
NEEDLE PROTECTOR	US	60/402286	
NEEDLE PROTECTOR	US	10/618353	
HOLDER FOR DOUBLE ENDED BLOOD COLLECTION RETRACTABLE NEEDLE	US	269168	5030209
NEEDLE GUARD FOR BLOOD COLLECTION	US	765956	5181524
BLOOD COLLECTION TUBE HOLDER	US	828309	5219333
DISPOSAL FOR NEEDLE AND SYRINGES	US	536708	5086922
DISPOSAL FOR DISENGAGING AND RECEIVING NEEDLES	US	576378	5092462
NEEDLE DISPOSAL SYSTEM COMPRISED OF BLOOD COLLECTION HOLDER AND COMPANION BIOHAZARD RECEPTACLE	US	708900	5273161
NEEDLE DISPOSAL SYSTEM COMPRISED OF BLOOD COLLECTION HOLDER AND COMPANION BIOHAZARD RECEPTACLE	US	08/156083	5409112
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	8/612093	5714125
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	8/951440	5910289
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/287000	6074612



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	10/116770	7153386
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/521739	6727101
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/549982	6503453
APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS	US	60/030212	
APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS	US	8/963880	5957125
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	60/207709	
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	9/866139	6709428
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	10/318650	7024749
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/837581	5167657
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/494045	5100401
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/270006	5026347
CRYOGENIC RESISTANT COEXTRUDED TUBING	US	7/560698	5460625
METHODS FOR PROCESSING RED CELL PRODUCTS FOR LONG TERM STORAGE FREE OF MICROORGANISMS	US	8/299793	5512187
BLOOD LABELS AND THE LIKE	US	7/847165	5314421
BLOOD LABELS AND THE LIKE	US	8/173337	5507525
RELIABLE BREAKABLE CLOSURE MECHANISM	US	7/849267	5330464
BLOOD SAMPLING SYSTEM WITH LUER ADAPTER	US	7/979567	5372143
BLOOD COLLECTION SYSTEM	US	8/650929	5824216
BLOOD COLLECTION SYSTEM	US	8/684516	5770051
BLOOD CELL SEPARATOR SIGNAL PROCESSING SYSTEM AND METHOD	US	8/482363	5565977

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS FOR OBTAINING LIQUID SAMPLES	US	9/231682	6126618
PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH	US	9/364628	6387086
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	10/304299	7044941
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	10/957016	
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	11/251283	
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	11/250717	
METHOD AND APPARATUS FOR BLOOD SAMPLING	US	10/956296	
FLOW CONTROL DEVICE	US	9/964959	6742760
IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP	US	60/353930	
IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP	US	10/501571	
HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE	US	60/364314	
HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE	US	10/279251	
BLOOD DONOR NEEDLE ASSEMBLY AND COVER	US	10/974651	
FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME	US	60/740312	
FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME	US	11/564085	
BLOOD COMPONENT CONTAINER	US	11/376790	
FLOW CONTROLLERS	US	11/555797	
FLOW CONTROLLERS	US	11/555868	
SYSTEMS AND METHODS FOR REMOVING UNDESIRE MATTER FROM BLOOD CELLS	US	7/453952	4997577; RE35804
MEDICAL CONTAINER PORT	US	8/313560	5507904
APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS	US	8/700239	5772880

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS	US	8/178383	5591337
F4-WHOLE BLOOD LEUKODEPLETION AND PLATETLET FILTER	US	8/323559	5647985
METHOD OF SEPARATING LEUKOCYTES FROM BLOOD CELLS USING A LEUKODEPLETION FILTER	US	8/810751	5795483
FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD	US	8/370772	5728306
FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD	US	8/943455	5885457
CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM	US	9/082946	6267745
CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM	US	10/619870	6997893
SYSTEMS AND METHODS FOR COLLECTING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	9/540935	6669905
SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	60/252870	
SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	11/449543	
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/055862	6601710

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/084605	6688476
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/764630	
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	9/498085	6367634
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	10/761850	
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	9/593782	6422397
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	10/159442	6745902
BLOOD COLLECTION SYSTEMS INCLUDING A FLEXIBLE FILTER WITH A CUSHIONED PERIPHERY			
OBTAIN ASAHI ATTORNEY COMMENTS	US	10/275805	
BLOOD FILTER ASSEMBLY HAVING MULTIPLE FILTRATION REGIONS	US	10/742521	
BIOLOGICAL FLUID FILTRATION SYSTEMS AND METHODS	US	11/618286	
MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD	US	7/296850	4911703
MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD	US	7/496739	5232437
OPTIMIZED FILTER AND METHOD	US	7/473142	4964976
METHOD AND APPARATUS FOR COLLECTION OF PLATELETS	US	8/459529	5614106
DISPOSABLE TUBING SET AND ORGANIZER FRAME FOR HOLDING FLEXIBLE TUBING	US	8/779094	5870805

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
AUTOMATED BLOOD TRACKING SYSTEM AND INTERFACE	US	60/287122	
SYSTEM AND METHOD FOR COMPILING AND VIEWING INFORMATION OF DATA ACTIONS WITHIN A BLOOD COLLECTION	US	9/864888	
A SYSTEM AND METHOD FOR TRACKING AND REORDERING SOFT GOODS	US	9/864891	
BLOOD COMPONENT CENTRIFUGE HAVING COLLAPSIBLE INNER LINER	US	824182	4934995
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	8/472671	5759147
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	7/744947	5217426
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	8/277706	5571068
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	8/199082	5494578
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	7/514995	5104526
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	7/677602	5076911
CENTRIFUGAL FLUID PROCESSING SYSTEM AND METHOD	US	7/598753	5078671
SMALL VOLUME COLLECTION CHAMBER	US	7/531175	5224921
CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER	US	8/334197	5525218
CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER	US	8/147015	5360542
ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS	US	8/336283	5529691

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS	US	7/965088	5370802
ENHANCED YIELD COLLECTION SYSTEMS AND METHODS FOR OBTAINING CONCENTRATED PLATELETS FROM PLATELET-RICH PLASMA	US	8/978499	5993370
TIME BASED INTERFACE DETECTION SYSTEMS FOR BLOOD PROCESSING	US	8/109008	5316667
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	10/337486	6899666
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	8/856096	6228017
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	8/146403	5656163
SYSTEMS AND METHODS FOR REDUCING THE NUMBER OF LEUKOCYTES IN CELLULAR PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	8/454010	5549834
SYSTEMS AND METHODS FOR ON-LINE COLLECTING AND RESUSPENDING CELLULAR-RICH BLOOD PRODUCTS LIKE PLATELET CONCENTRATES	US	8/097293	5427695
SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT	US	8/977305	6071421
SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT	US	8/975694	6007725
PERISTALTIC PUMP TUBE CASSETTE FOR BLOOD PROCESSING SYSTEMS AND THE LIKE	US	8/173517	5462416

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD PROCESSING SYSTEMS USING A PERISTALTIC PUMP MODULE	US	8/173520	5482440
PERISTALTIC PUMP MODULE HAVING JAWS FOR GRIPPING A PERISTALTIC PUMP TUBE CASSETTE	US	8/172654	5480294
PERISTALTIC PUMP TUBE CASSETTE WITH ANGLE PUMP TUBE PORTS	US	8/173518	5427509
SELF LOADING PERISTALTIC PUMP TUBE CASSETTE	US	8/172130	5445506
CENTRIFUGE WITH SLOPED ROTATIONAL AXIS AND FUNCTIONAL COMPONENTS MOUNTED ON COMPLEMENTING SLOPED PANEL	US	8/535762	5547453
STRESS BEARING UMBILICUS FOR A COMPACT CENTRIFUGE	US	8/590353	5996634
STRESS BEARING UMBILICUS FOR A COMPACT CENTRIFUGE	US	8/172131	5514069
PERISTALTIC PUMP TUBE HOLDER WITH PUMP TUBE SHIELD AND COVER	US	8/848020	5868696
PERISTALTIC PUMP AND VALVE ASSEMBLY FOR FLUID PROCESSING	US	8/173516	5484239
BLOOD PROCESSING SYSTEM HAVING SPILL SENSOR WITH FAIL-SAFE	US	8/270644	5529567
PERISTALTIC PULSE PUMPING SYSTEMS AND METHODS	US	8/269933	5538405
INTERACTIVE CONTROL SYSTEMS FOR MEDICAL PROCESSING DEVICES	US	8/337639	5581687
BLOOD COLLECTION SYSTEMS AND METHODS WHICH DERIVE INSTANTANEOUS BLOOD COMPONENT YIELD INFORMATION DURING BLOOD PROCESSING	US	8/807820	5833866

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD PROCESSING SYSTEMS AND METHODS WHICH MONITOR CITRATE RETURN TO THE DONOR	US	8/472439	5676841
BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER	US	8/960674	6059979
BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER	US	9/793801	6451203
SYSTEMS AND METHODS FOR DERIVING RECOMMENDED STORAGE PARAMETERS FOR COLLECTED BLOOD COMPONENTS	US	8/483733	5639382
SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION	US	9/027638	6197202
SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION	US	8/480601	5759413
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	10/430785	6872307
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	11/064267	
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	9/548190	6361692



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	9/223212	6051147
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	8/606189	5865785
UMBILICUS GIMBAL WITH BEARING RETAINER	US	8/835928	5989177
INTERFACE DETECTOR AND CONTROL SYSTEMS AND METHODS	US	8/922880	5980757
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY	US	8/896665	5958250
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY	US	9/382893	6183651
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR INCREMENTAL PLATELET VOLUMES IN A PLASMA CONSTITUENT	US	9/419727	6312607
PERISTALTIC PUMP CONTROLLER WITH SCALE FACTOR THAT VARIES AS A STEP FUNCTION OF PUMP INLET PRESSURE	US	8/960676	5947692
SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES	US	9/037356	6256643
SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES	US	9/855901	6542910

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL	US	9/042260	6565806
APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL	US	10/372882	6855120
A CARRIER FOR HOLDING A FLEXIBLE FLUID PROCESSING CONTAINER	US	9/050614	7001321
BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT	US	10/827951	
BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT	US	9/789183	6730054
SYSTEMS AND METHODS FOR SEPARATING HIGH HEMATOCRIT RED BLOOD CELL CONCENTRATIONS	US	9/072961	6080322
SYSTEMS AND METHODS WHICH OBTAIN A UNIFORM TARGETED VOLUME OF CONCENTRATED RED BLOOD CELLS IN DIVERSE DONOR POPULATIONS	US	8/979160	6251284
SYSTEM AND METHODS FOR SEPARATING, COLLECTING AND STORING RED BLOOD CELLS	US	9/287671	6527957
PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH	US	10/279252	
SELF-CONTAINED, TRANSPORTABLE BLOOD PROCESSING DEVICE	US	9/390489	6325775
PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS	US	9/390268	6949079

## 1. Owned Buyer Patents

InvTitle	Country	AppNumber	PatNumber
PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS	US	11/052528	
SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING	US	10/153165	6984218
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	9/389797	6481980
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	10/828440	
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	10/287560	6716004
SYSTEM AND METHODS FOR CONTROL OF PUMPS EMPLOYING GRAVIMETRIC SENSING	US	9/390269	6296450
SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING	US	9/390491	6261065
BLOOD PROCESSING SYSTEMS AND METHODS WITH SENSORS TO DETECT CONTAMINATION DUE TO PRESENCE OF CELLULAR COMPONENTS OR DILUTION DUE TO PRESENCE OF PLASMA	US	9/390492	6348156
SENSING SYSTEMS AND METHODS FOR DIFFERENTIATING BETWEEN DIFFERENT CELLULAR BLOOD SPECIES DURING EXTRACORPOREAL BLOOD SEPARATION OR PROCESSING	US	9/931146	6537445
SYSTEMS AND METHODS FOR SENSING RED BLOOD CELL HEMATOCRIT	US	9/901986	6419822

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS	US	9/389504	7041076
BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS	US	11/375965	
BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER	US	9/976832	6875191
BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER	US	11/032271	
BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING	US	9/389938	6322488
BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING	US	10/438953	6800054
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	10/339473	7166231
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	9/389935	6524231

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	11/256550	
SYSTEMS AND METHODS FOR SEPARATING BLOOD IN A ROTATING FIELD	US	9/390266	6315707
BLOOD PROCESSING SYSTEMS AND METHODS EMPLOYING FLUID PRESSURE ACTUATED PUMPS AND VALVES	US	9/389934	6759007
FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS	US	10/828359	
FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS	US	9/390265	6723062
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	60/216640	
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	10/031112	6994781
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	11/198804	
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	11/198805	
ADAPTABLE BLOOD PROCESSING PLATFORMS	US	10/144662	7032910
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT	US	10/280109	7011761

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT	US	11/255356	
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WITH DELIVERATE UNDER SPILL OF RED BLOOD CELLS	US	10/279772	6878105
BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO THEIR USE	US	10/280108	6846161
BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO USE	US	10/983014	7004727
BLOOD PROCESSING SYSTEMS AND METHODS FOR COLLECTING PLASMA FREE OR ESSENTIALLY FREE OF CELLULAR BLOOD COMPONENTS	US	10/279765	6849039
BLOOD PROCESSING SYSTEMS AND METHODS WITH UMBILICUS-DRIVEN BLOOD PROCESSING CHAMBERS	US	10/279779	6860846
SEPARATION APPARATUS AND METHOD	US	60/533820	
SEPARATION APPARATUS AND METHOD	US	10/827603	
METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD	US	60/532310	
METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD	US	10/826420	

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS	US	10/826086	7087177
METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS	US	11/427402	
IRRADIATION OF BLOOD PRODUCTS	US	7/346202	4952812
RED BLOOD CELL STORAGE SOLUTION	US	8/742279	5906915
SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD USING DISCRETE SOURCES OF RADIATION	US	8/174211	5868695
SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUID LIKE BLOOD	US	7/991758	5300019
SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA	US	9/073230	6695805
SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA	US	8/574741	5935092
SYSTEMS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD	US	7/994094	5290221
CONTAINER FOR IRRADIATION OF BLOOD PRODUCTS	US	10/752352	
METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID	US	8/010469	5360734
METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID	US	8/274507	5597722
STEAM STERILIZABLE SYSTEM FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	7/952427	6207107

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	8/434700	5527704
APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	9/675511	6800432
METHOD AND APPARATUS FOR TREATING A BODY FLUID	US	8/168438	6319662
APPARATUS AND METHOD FOR INACTIVATING VIRUSES IN PLASMA	US	8/299398	5762887
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	8/692444	5908742
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	8/742572	6190855
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	9/688079	6855489
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	11/056347	
METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUIDS	US	8/752606	5922278
METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUID	US	9/081168	6190609
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	9/490191	6326197
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	8/871115	6063624
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	10/029785	6613566
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	9/732174	6566046
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	9/240067	6251580



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	10/413110	6866992
COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES	US	9/997822	6899834
COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES	US	9/111915	6908553
APPARATUS, MEMBRANES AND METHODS FOR REMOVING ORGANIC COMPOUNDS FROM A BIOLOGICAL FLUID	US	9/111655	6099734
PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS	US	10/059666	
PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS	US	9/325436	6364864
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	9/325325	6565802
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	10/207744	6986867
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	11/191134	
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	10/269409	7068361
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	11/443599	
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	11/443927	

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	10/267566	7105093
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	9/325599	7205877
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	11/353397	
FLUID PROCESSING SETS AND ORGANIZERS FOR THE SAME	US	10/269444	
MANUAL PROCESSING SYSTEMS AND METHODS FOR PROVIDING BLOOD COMPONENTS CONDITIONED FOR PATHOGEN INACTIVATION	US	10/008361	
METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS	US	10/004696	6936413
METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS	US	11/173214	
COMPOUND REMOVAL DEVICE	US	60/364289	
METHOD AND APPARATUS FOR A PATHOGEN INACTIVATION MANAGEMENT SYSTEM	US	10/290035	
FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE	US	10/661994	
FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE	US	11/267391	

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